

# Álvaro Corrales Cano

## Senior Data Scientist

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## WORK EXPERIENCE

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*Travel - Career Break*

09/2023 - Present

### IBM

London, UK

*Pre-sales development of PoCs with AI and Cloud technologies for clients in the banking, telco and public sector, using an Agile framework.*

#### Senior Data Scientist – AI Team Community Lead

10/2022 – 09/2023

Client Engineering Team

- Supported the delivery of +30 projects for +15 clients, including PoCs, MVPs, workshops and demos. Engaged with C-level stakeholders, department leaders and development teams.
- Internal Management: AI Community Lead of a ~15-people team; Designed and conducted recruitment process; Mentoring; Knowledge management.

Selected projects:

- Led a team to create an algorithm for identifying non-compliant IT controls for a major UK bank using a sentence encoding model, a BERT-based entity extraction model and logical rules. The project resulted in a two-order-of-magnitude increase in controls processed.
- Led the development of a data governance framework for a major UK bank including business terms, categories, data privacy rules, and automated data quality assessments.

#### Data Scientist

04/2021 – 09/2022

Client Engineering Team

Selected projects:

- Led a team for the creation of a tool for auditing customer calls for a major UK bank using a custom speech-to-text model and a BERT-based model for entity extraction and sentiment analysis. The tool improved up to 15 p.p. the transcription accuracy over the existing solution.
- Developed a dashboard for an NHS trust in the UK to visualise internal governance metrics and predict future performance using time series models.

#### Data Scientist

11/2019 – 03/2021

Cloud Pak Acceleration Team

Selected projects:

- Emergent Alliance (open-source initiative). Co-authored a model of the economy to study how economic shocks propagate across economic sectors using input-output tables. Github repository [here](#).

### Charles River Associates

London, UK

*Economic consulting in mergers and abuse of dominance cases.*

#### Consulting Associate

08/2018 – 07/2019

European Competition Practice

- Successfully advised PayPal in its acquisition of iZettle, a company in the card payments industry, in a \$2.2bn operation. Tasks included: Market share calculation; Customer survey design and analysis; Customer database fuzzy matching; Report drafting.
- Worked on other confidential cases in the tech, air transport and natural gas sectors in front of the UK's and the EU's competition authorities.

## Neovantas Consulting

Madrid, Spain

*Management consulting*

### Business Analyst – Data Analyst

01/2016 – 08/2017

- Led a lighthouse project for the design and implementation of a debt recovery strategy for a collection agency using speech analytics and econometrics. Improvement of up to +29 p.p. in collection ratios. Started this project as an intern; after one year, I was leading a team of three people, including client-facing responsibilities.

## PUBLICATIONS

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### An Introduction to Time Series, Educative

11/2023

A 40-lesson online course on time series analysis and forecasting in Python. It uses the pandas, numpy, matplotlib and statsmodels libraries to illustrate concepts in +80 code widgets.

URL: <https://www.educative.io/courses/an-introduction-to-time-series>

*Educative is a hands-on learning platform for software developers offering text-based courses and coding environments.*

## EDUCATION

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### Barcelona School of Economics MSc in Economics and Finance

Barcelona, Spain  
2017 - 2018

### Universidad Carlos III de Madrid BA in Economics

Madrid, Spain  
2012 - 2016

### University of California, Berkeley BA in Economics, year abroad

Berkeley, CA, US  
2014 – 2015

## SKILLS

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**Techniques:** Machine Learning – *supervised and unsupervised learning*; Causal Inference; Time Series Analysis – *ARIMA, decomposition, forecasting*; Statistical Analysis; NLP – *sentiment analysis, topic modelling*; Data Visualisation and Story Telling; Data Governance, MLOps.

**Technologies:** Python - *numpy, pandas, scikit-learn, statsmodels, skforecast, pytorch*; IBM Cloud; Databases - *Db2, MongoDB*; Dashboarding - *Cognos Analytics*; Excel; SQL; Git.

## OTHER

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### Languages

- **Spanish** – Native
- **English** – Full proficiency
- **French** – Intermediate

### Visa status

- Spanish national
- Settled status in the UK - Indefinite leave to remain